

Pioneering for You

wilo

Water supply and pressure boosting

Wilo-Isar BOOST5

Pressure boosting
in domestic applications



Wilo-Isar BOOST5

Our solution for optimum water pressure.
Wherever and whenever.

The Wilo-Isar BOOST5 can be used universally for domestic water supply and always provides constant water pressure at all extraction points. Thanks to its efficient hydraulics and noise blocking covers, the system runs smoothly and quietly. With its modern, compact design, it fits perfectly in the home environment. Thanks to its efficient hydraulics and demand-oriented supply, the system is also energy-efficient and cost-efficient.

The Wilo-Isar BOOST5 offers even more user comfort: it is easy to install with its ready-to-plug design. It is very easy to operate thanks to the LED display and push buttons. Comprehensive built-in protection features guarantee safe operation. The pump unit is made out of high-quality plastic, guaranteeing a long service life.



Pressure-boosting system with one pump and integrated frequency converter for water supply in residential applications. Plug & Pump system to manage and maintain constant pressure.

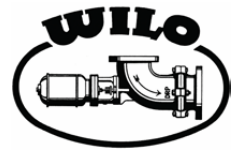
Wilo-Isar BOOST5-E-3

Wilo-Isar BOOST5-E-5



The Wilo Group is one of the world's leading premium providers of pumps and pump systems for the building services, water management and industrial sectors. In the past decade, we have developed from a hidden champion into a visible and connected champion. Today, Wilo has around 8,000 employees worldwide.

Our innovative solutions, smart products and individual services move water in an intelligent, efficient and climate-friendly manner. We are also making an important contribution to climate protection with our sustainability strategy and in conjunction with our partners. We are systematically pressing ahead with the digital transformation of the Group. We are already the digital pioneer in the industry with our products and solutions, processes and business models.





Quality, high efficiency, safety for the future

Our instruments for professionals.

Wilo aims to assist you in your day-to-day activities and to support you in your work in a targeted manner. Technical assistance, assistance with selection and approval, technological innovation and very high quality standards contribute to the implementation of your projects.

Wilo is the only partner you need for the implementation of your projects related to air conditioning, water supply and wastewater disposal systems. You can rely on **Wilo's** quality approach for all applications involving the movement of water. Our range of products and services is rich in solutions, from HVAC (Heating Ventilation and Air Conditioning) to pressure boosting for all areas of the public water supply with limited pressure levels, as well as wastewater drainage for areas not connected to the main sewerage system.

Our product range is clearly and systematically structured – we offer pumps, complete systems or modular and customised solutions to meet the specific needs of your projects.

For **Wilo**, efficiency and sustainability are not just slogans but clearly stated objectives. Our pumps meet the highest efficiency values, while our production standards ensure maximum reliability.

Offer your customers long-term solutions that stand out for their reliability and operational security.

Online BIM library:

By installing a plugin available at www.wilo.com you can have direct access to the BIM blocks.

Online CAD catalogue:

2D and 3D CAD library at www.wilo.cadprofi.com for quick access to data about the dimensions of our products.

Wilo-Assistant:

The Wilo-Assistant app is available free of charge, is easy to use and contains lots of information that was previously only available on the internet or in paper documents. Available for iOS and Android devices.

Online product catalogue:

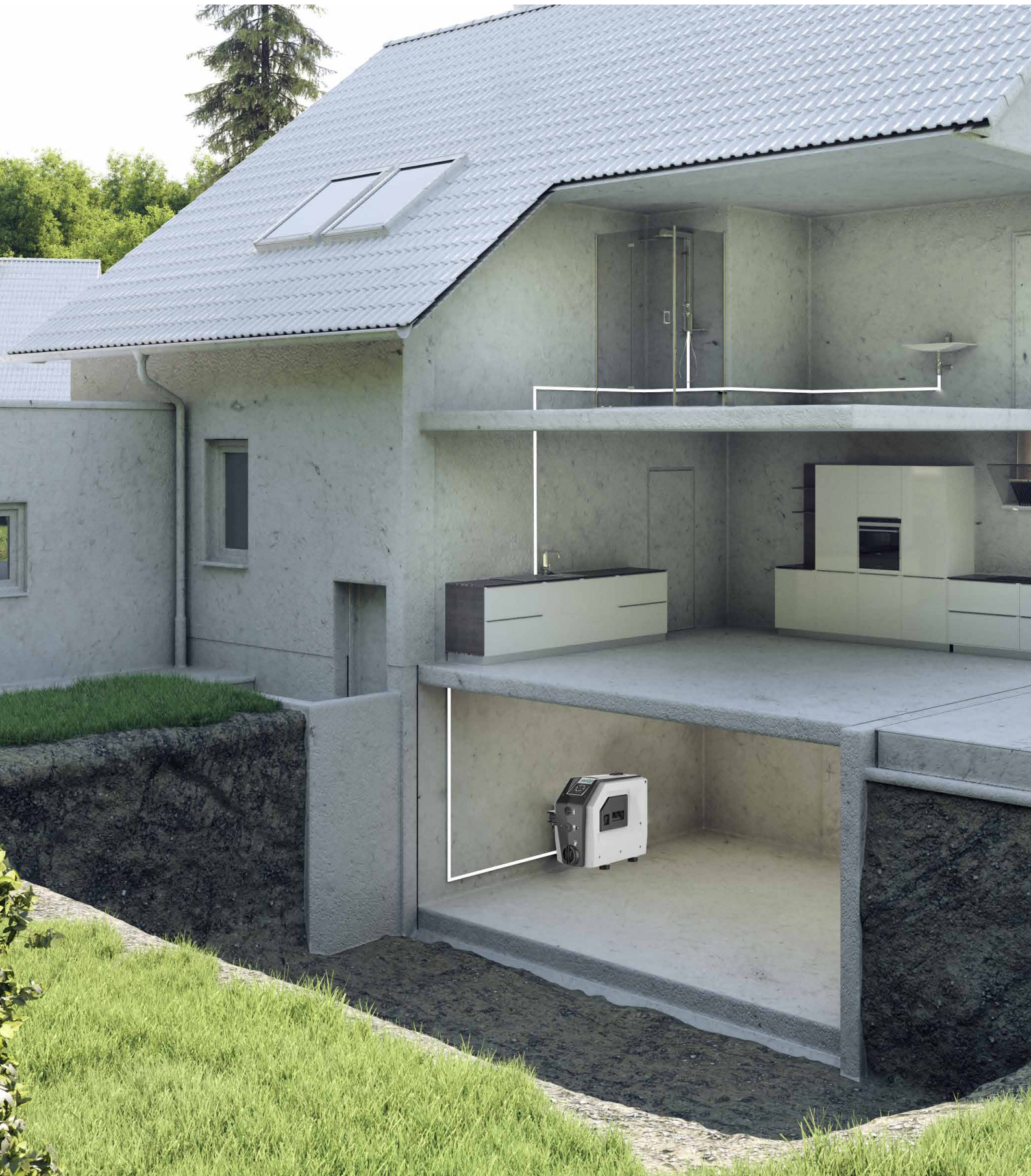
Through the wilo.com portal you have access to all product information, including relevant fields of application and technical details.

Wilo-Select4 software for selecting and choosing pumps:

With the Wilo-Select4 online software, available at wilo-select.com, you can select the right pump for your needs within seconds, and can also access all the technical information.

Wilo-Isar BOOST5

System for residential applications





Wilo-Isar BOOST5, the integrated system with electric pump and inverter for pressure boosting in residential applications.

Wilo-Isar BOOST5 is a domestic pressure-boosting system that integrates an electric pump, electronics, an inverter, non-return valves and a control panel for quick and easy installation. It can be used effectively in a wide variety of residential applications where there is a need to pressurize water. This includes the distribution of water inside residential units, the supply of irrigation systems and the withdrawal and distribution of water from rainwater collection tanks or reservoirs.

Wilo-Isar BOOST5 incorporates an inverter to grant constant water pressure according to the actual needs of the user. This also grants particularly silent operation, which is suitable for installation inside the dwelling.

The flexibility of the system and its ability to adapt to the demands of the user also make it efficient in terms of reducing energy and water consumption.

Available versions:

Wilo-Isar BOOST5-E-3

Wilo-Isar BOOST5-E-5

Wilo-Isar BOOST5

Operating principle





The Wilo-Isar BOOST5 is a pressure-boosting system for residential applications, suitable for pumping clean, non-aggressive water free of suspended solids.

When the pressure sensor detects a drop of pressure in the system due to the opening of one or more extraction points, the electronics start the pump to restore the set-point pressure value in the system. The inverter varies the speed of the motor, modulating the hydraulic performance according to the specific demand of the system.

When the pressure is restored, the flow sensor will detect the lack of water flow and will stop the pump until the next system start. The system also provides protection against dry running, thermal protection against motor and inverter overheating and electrical protection against sudden changes in voltage and current.



Wilo-Isar BOOST5

Focus

Multistage, self-priming, automatic pressure-boosting system for residential applications

Ease of operation

The simple and intuitive control panel allows you to manage the pressure set-point to be supplied and to monitor the operating status and any errors.

Efficiency

The inverter integrated in the system allows to maintain a constant pressure, reducing energy consumption and optimizing the use of water resources.

Integrated solution

Plug & Pump system ready for connection, complete with pressure and flow sensors, integrated non-return valve and pressure vessel.





Pressure boosting



Residential applications



Adaptability

The selector to switch between self-priming and non-self-priming operation facilitates the installation for different conditions and applications.

Hydraulics

Self-priming multistage pump, corrosion-resistant materials for sustainable operation.

Execution

Quiet, efficient, compact and reliable, maintenance operations are reduced to a minimum, a robust system for all residential applications.

Wilo-Isar BOOST5

Details



System description

1	Main switch	7	Drainage screw
2	Cable glands for external off	8	Adjustable discharge connection
3	Control panel	9	Adjustable suction connection
4	Filler screw	10	Power supply cable
5	Expansion vessel screw	11	Damping feet
6	Vent screw	12	Connector fixing clap

Wilo-Isar BOOST5

Control panel

Operation status indicator LED:

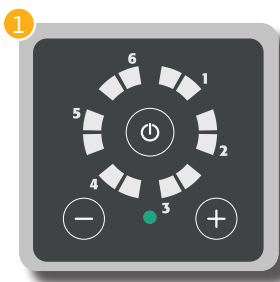
- indication of adjustment value in bar
- Pump running
- Error or alarm

Adjustment buttons
“-” or “+”



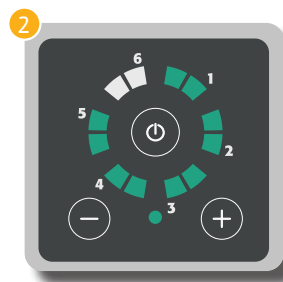
On/Off button

System status LED



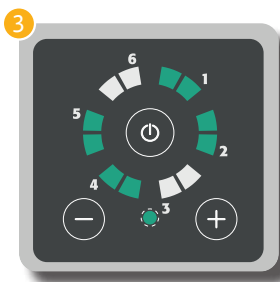
System on stand-by

- The system is powered and not in operation.
- Operating LEDs off.
- System status LED solid green.



System running

- System powered and pump running.
- Operating LEDs indicate adjustment value.
- System status LED solid green.



System deactivated

- System powered and pump idle.
- LED operating in circular mode.
- System status LED flashing green.



System error/alarm

- The system is powered and not in operation.
- Operating LEDs off.
- System status LED solid red.

Wilo-Isar BOOST5

Operating modes

Self-priming mode

The **Wilo-Isar BOOST5** is supplied from the factory in **self-priming operation** mode for installations such as with-drawal from underground tanks or reservoirs.

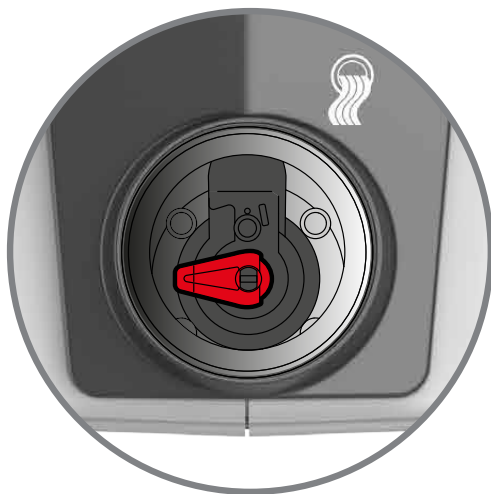
Non-self-priming mode

For installations where the system is fed from tanks or reservoirs by gravity or directly connected to a pressurized network, it is possible to change the functionality of the system to **non-self-priming mode**.



Self-priming mode

Non-self-priming mode



Wilo-Isar BOOST5

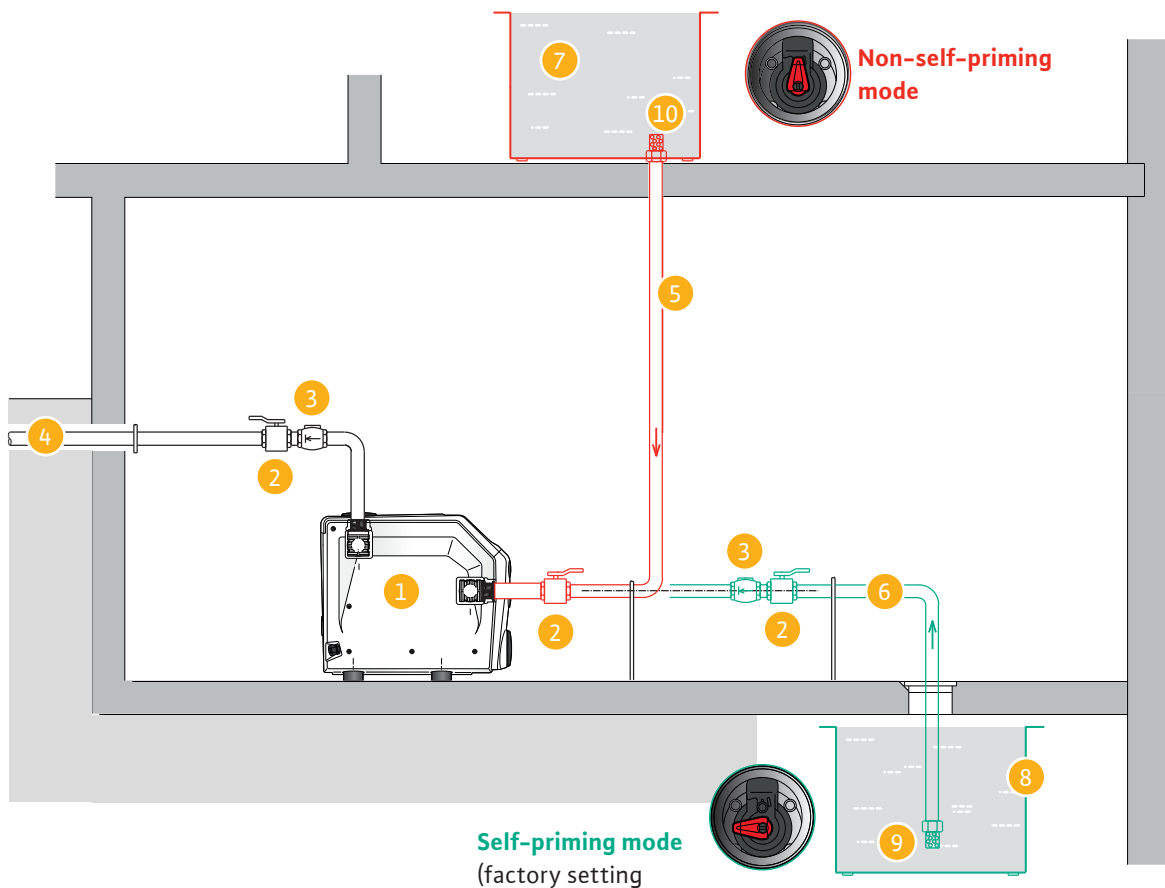
System type diagram

The **Wilo-Isar BOOST5** is a water pressure-boosting system for residential applications which, thanks to the integrated frequency converter, maintains a constant pressure according to actual requirements and can be installed effectively in both positive and negative supply pressure conditions.

The manual selector switch allows the pressurization system to be switched to **self-priming** or **non-self-priming mode**.

The **Wilo-Isar BOOST5** is a **Plug & Pump** pressure-boosting system for domestic applications. All components required for operation are integrated in the enclosure: electric pump, electronics, inverter, pressure vessel, non-return valve, flow and pressure sensor.

Compact, silent and efficient, it can be installed directly inside the home.



System description

1	Wilo-Isar BOOST5 pressure-boosting system	6	Supply pipe (positive supply pressure)
2	Shut-off valve	7	Water feed from upper level tank
3	Non-return valve	8	Water feed from lower level tank
4	Pressure line	9	Foot valve
5	Suction line (underfloor system)	10	Filter

Wilo-Isar BOOST5

Data sheet



Pressure-boosting system **with inverter.**

Product advantages

Type key

Example **Wilo-Isar BOOST5-E-5**

Isar Product code of the pressure-boosting system

BOOST Pressure boosting in domestic application

5 System execution with integrated pump control

E Electronically controlled

3 Nominal flow m³/h

Description

Integrated water supply and pressure-boosting system with an **inverter** for intuitive and efficient performance control, a **highly efficient self-priming multistage pump**, a pressure vessel, pressure and flow sensors and a non-return valve.

Application

- Pressure boosting
 - Residential water supply

Technical data

Approved fluids

- Clean, non-aggressive water free of suspended solids

Field of application

Mains power supply	1~ 230 V - 50 Hz
Frequency	50/60 Hz
Protection class	IPX4
Insulation class	F

Operating range

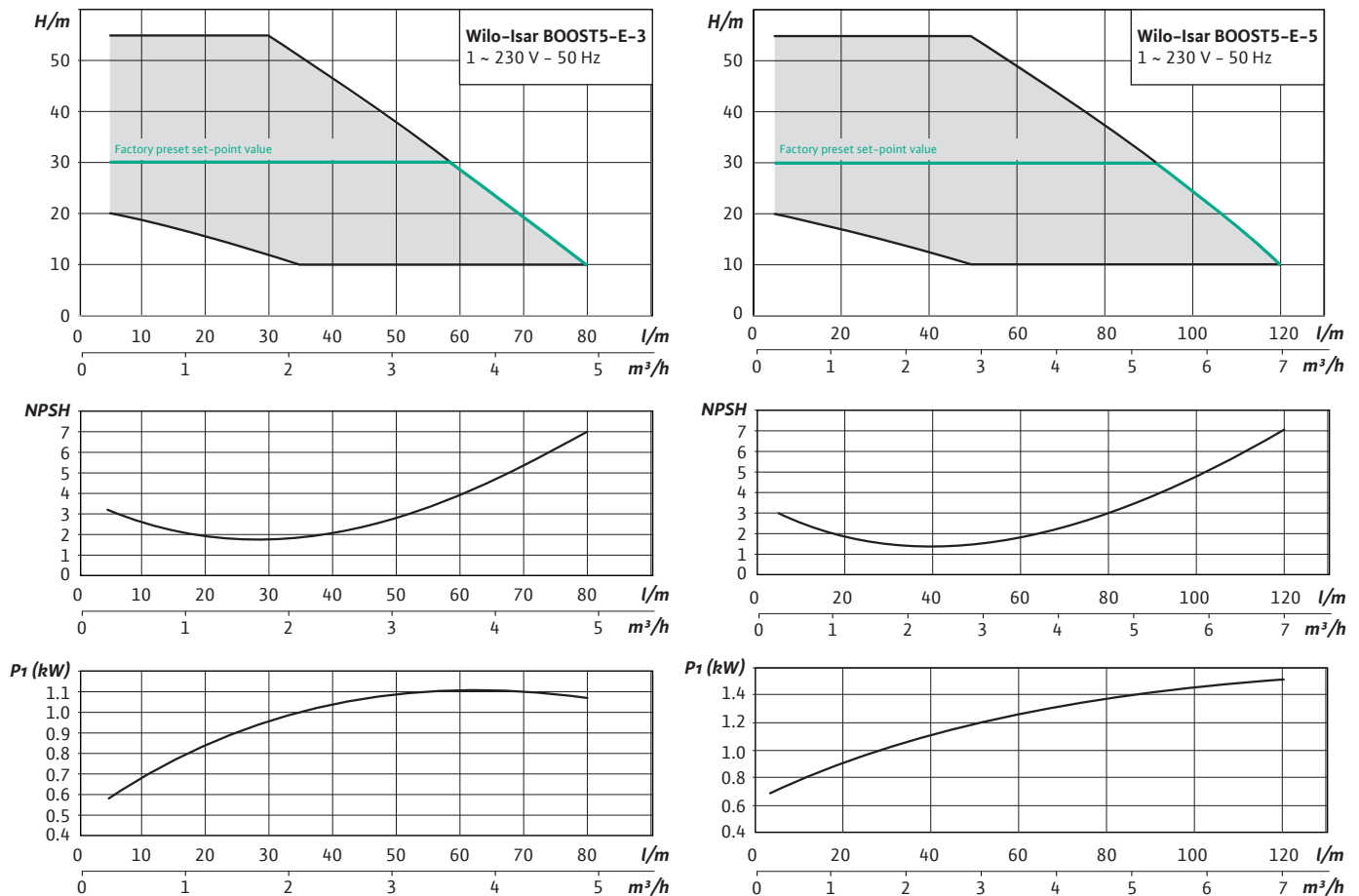
Max. suction height	8 m
Fluid temperature	0 °C to +40 °C
Ambient temperature	0 °C to +40 °C
Max. operating pressure	10 bar
Operation mode	S1 (continuous operation)

Wilo-Isar BOOST5

Threaded connections	1~230 V – 50 Hz					PG5								W1	
Model	Suc- tion	Dis- charge	P2	I	Weight	Flow rat (m³/h)									
						0	1	2	3	3.5	4	4.5	5	6	7
			(kW)	(A)	(kg)	Head (m)									
Wilo-Isar BOOST5-E-3	1"	1"	0.75	7.5	15	55	55	53	38	32	23	15	9		
Wilo-Isar BOOST5-E-5	1"	1"	1.1	10.5	15	55	55	53	52	49	44	38	34	22	10

Wilo-Isar BOOST5

Performance curves and technical data

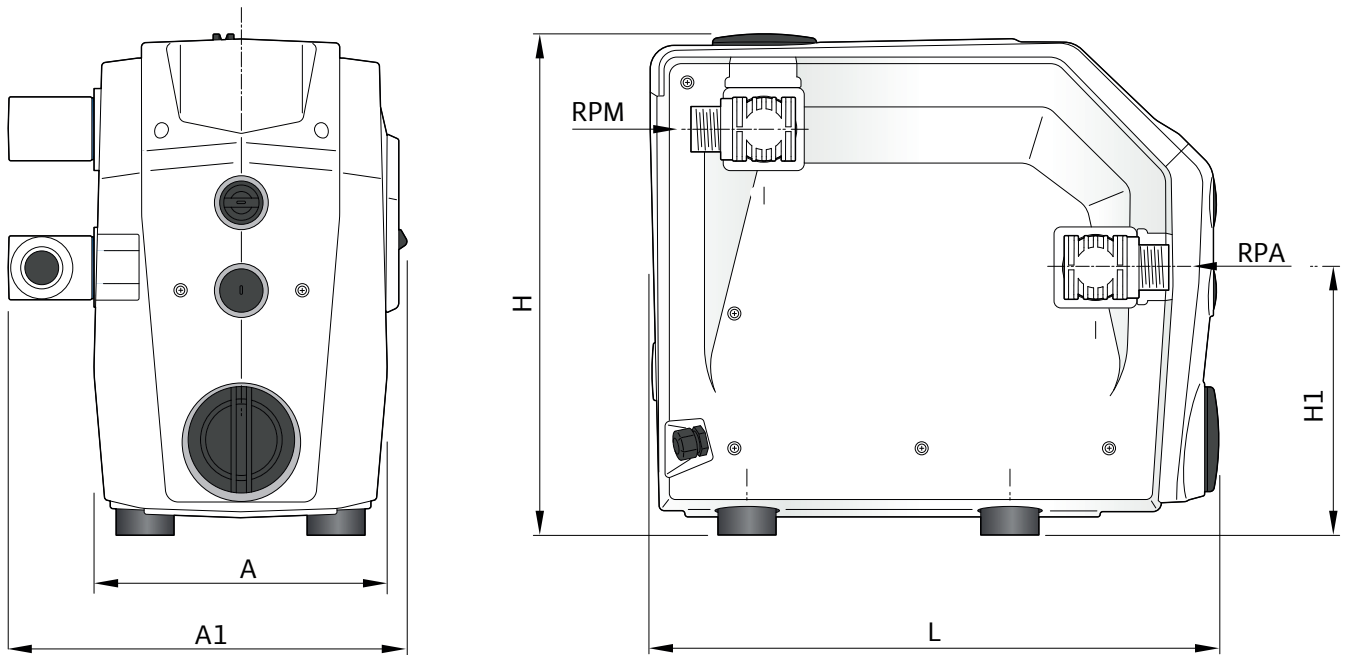


Technical data table

	Wilo-Isar BOOST5-E-3	Wilo-Isar BOOST5-E-5
Max. flow rate	5 m³/h	7 m³/h
Max. suction head	8 m	
Fluid temperature	0 °C to +40 °C	
Ambient temperature	0 °C to +40 °C	
Max. operating pressure	10 bar	
Mains power supply	1~ 230 V ± 10 %	
Frequency	50/60 Hz	
Rated power P2	0.75 kW	1.1 kW
Nominal current	7.5 A	10.5 A
Protection class	IPX4	
Insulation class	F	
Operation mode	S1 (continuous operation)	

Wilo-Isar BOOST5

Dimensions



Dimensions							
Model	Nominal diameter		width		length	height	
	Suction	Discharge	A [mm]	A1 [mm]	L [mm]	H [mm]	H1 [mm]
Wilo-Isar BOOST5-E-3	1"	1"	200	274	390	344	184
Wilo-Isar BOOST5-E-5	1"	1"	200	274	390	344	184

Wilo-Assistant

App-solutely uncomplicated



With the “Wilo-Assistant” app, you now have the whole world of pumps in your pocket format to go with the trendsetting products. Available free of charge and easy to use, the Wilo-Assistant provides you with a wealth of information and functions.

Whether you want to replace a pump, are looking for convincing sales arguments or need to carry out a pump sizing – the Wilo-Assistant reliably supports you in your daily tasks.

95 % of
all functions
accessible without
an internet
connection

The “Wilo-Assistant” app is available for the following operating systems. In addition, the Wilo-Assistant is available as a web app for all other internet-capable smartphones directly via the internet browser.



App Store is a service
mark of Apple Inc.



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appworld.blackberry.com



app.wilo.com



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